

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/018992

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C07K1/18 B01D15/36

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07K B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>FRANKEN K L M C ET AL: "Purification of His-Tagged Proteins by Immobilized Chelate Affinity Chromatography: The Benefits from the Use of Organic Solvent"</p> <p>PROTEIN EXPRESSION AND PURIFICATION, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 18, no. 1, February 2000 (2000-02), pages 95-99, XP004435586</p> <p>ISSN: 1046-5928</p> <p>cited in the application</p> <p>page 97, right-hand column, paragraph 3 -</p> <p>page 98, left-hand column, paragraph 3</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-/--</p>	1-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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Date of the actual completion of the international search

27 September 2004

Date of mailing of the international search report

05/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PETSCH DAGMAR ET AL: "Endotoxin removal from protein solutions" JOURNAL OF BIOTECHNOLOGY, vol. 76, no. 2-3, 21 January 2000 (2000-01-21), pages 97-119, XP002296265 ISSN: 0168-1656 cited in the application page 103, left-hand column, paragraph 2 - page 115, left-hand column, paragraph 2 abstract	1-18
A	BISCHOFF R ET AL: "PURIFICATION AND BIOCHEMICAL CHARACTERIZATION OF RECOMBINANT X1-ANTITRYPSIN VARIANTS EXPRESSED IN ESCHERICHIA COLI" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 30, no. 14, 9 April 1991 (1991-04-09), pages 3464-3472, XP000179424 ISSN: 0006-2960 page 3465, left-hand column, last paragraph - right-hand column, paragraph 3 page 3469, paragraph 2	1-18
A	US 4 248 862 A (ELLWOOD DEREK C ET AL) 3 February 1981 (1981-02-03) the whole document	1-18
A	EP 0 407 037 A (MERCK & CO INC) 9 January 1991 (1991-01-09) the whole document	1-18
A	US 4 832 751 A (DOMELSMITH LINDA N ET AL) 23 May 1989 (1989-05-23) the whole document	1-18
A	US 5 045 456 A (RIENSTRA MARK S ET AL) 3 September 1991 (1991-09-03) the whole document	1-18
A	WO 99/63076 A (IMMUNE RESPONSE CORP INC) 9 December 1999 (1999-12-09) the whole document	1-18

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

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			JP 2878788 B2	05-04-1999
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			WO 9963076 A1	09-12-1999